

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730545

Luminaire Tested: **HBLED-LD5-18HE-W-AI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-AI-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17611.0 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

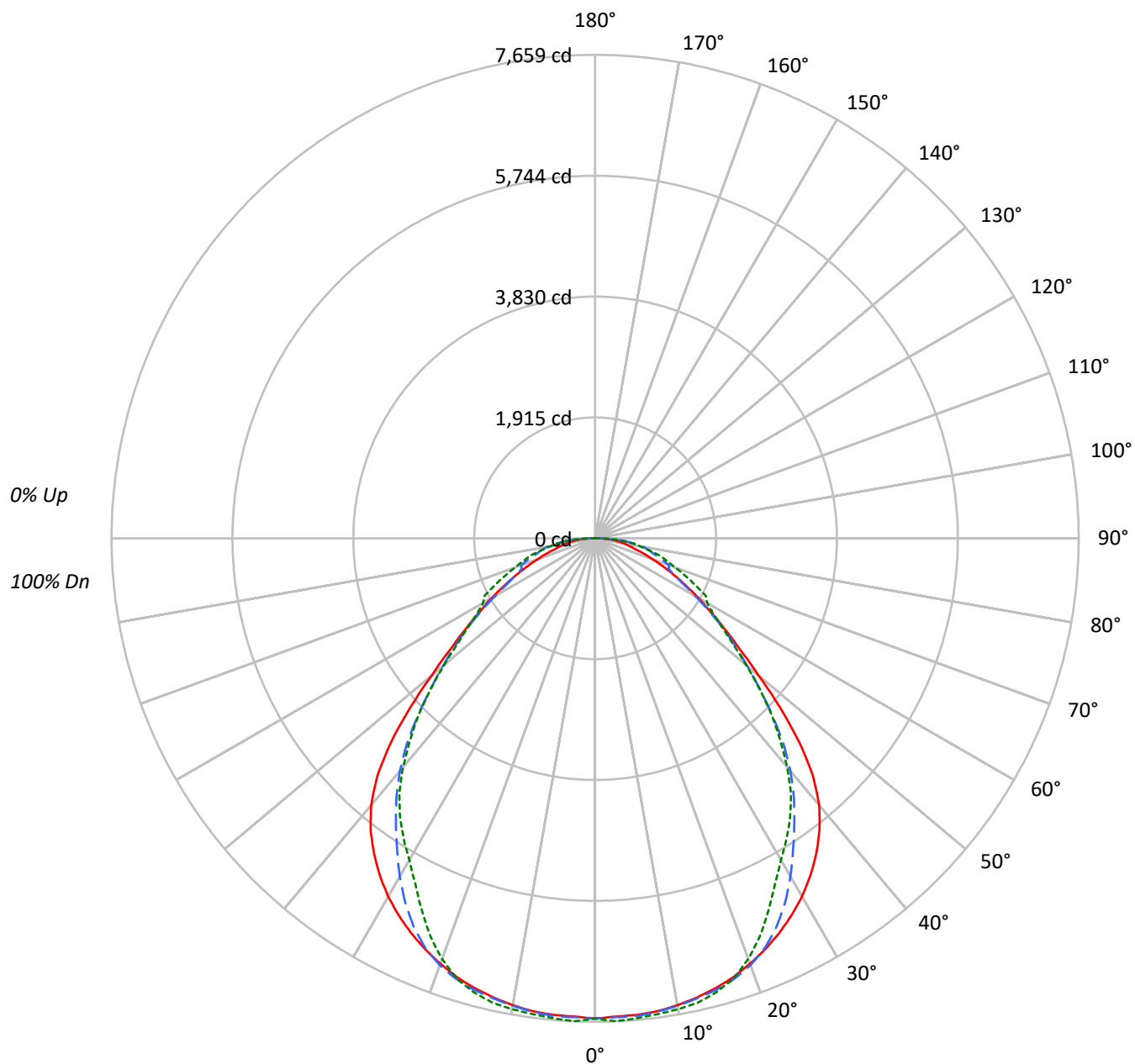
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12285	12285	12285
5°	12284	12311	12371
10°	12314	12330	12420
15°	12333	12379	12440
20°	12321	12367	12183
25°	12290	12106	11579
30°	12217	11535	10972
35°	12033	10841	10615
40°	11631	10137	9969
45°	10454	9052	9018
50°	8479	7884	7830
55°	7040	6910	6907
60°	6096	5918	6616
65°	5283	5250	6669
70°	4555	5889	6357
75°	4085	6036	6627
80°	4245	7106	6649
85°	4820	8188	7597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.4	4.1
10°-20°	2092.2	11.9
20°-30°	3107.4	17.6
30°-40°	3527.7	20.0
40°-50°	3153.7	17.9
50°-60°	2180.4	12.4
60°-70°	1438.8	8.2
70°-80°	970.7	5.5
80°-90°	415.8	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5924.0	33.6
0°-40°	9451.7	53.7
0°-60°	14785.8	84.0
0°-90°	17611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7608	7608	7608	7608	7608	
5°	7579	7626	7596	7627	7633	721
15°	7378	7414	7406	7447	7442	2083
25°	6898	6964	6795	6593	6500	3179
35°	6105	5977	5500	5420	5386	3807
45°	4578	4191	3964	3994	3949	3482
55°	2501	2283	2455	2420	2454	2272
65°	1383	1228	1374	1607	1746	1380
75°	655	824	968	1034	1062	715
85°	260	362	442	445	410	271
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7608.5	7608.5	7608.5	7608.5	7608.5
2.5°	7582.7	7630.0	7594.7	7627.5	7659.3
5°	7579.2	7625.7	7595.6	7626.6	7632.6
7.5°	7557.6	7600.7	7565.4	7595.6	7602.4
10°	7511.1	7562.0	7520.6	7567.1	7575.8
12.5°	7450.8	7502.5	7466.3	7530.1	7533.5
15°	7378.4	7413.8	7406.0	7447.4	7442.2
17.5°	7287.1	7327.7	7321.6	7331.9	7307.8
20°	7170.8	7216.5	7197.5	7150.1	7090.7
22.5°	7045.9	7101.0	7026.1	6906.3	6822.7
25°	6898.5	6964.0	6795.2	6592.7	6499.6
27.5°	6735.7	6794.3	6513.4	6265.3	6168.8
30°	6553.1	6578.0	6186.9	5950.8	5885.3
32.5°	6342.0	6305.8	5837.9	5682.0	5644.1
35°	6105.1	5976.7	5500.2	5420.1	5385.6
37.5°	5837.9	5602.8	5166.8	5129.8	5093.5
40°	5518.4	5171.1	4809.3	4785.2	4730.0
42.5°	5105.7	4701.6	4412.1	4383.6	4334.5
45°	4578.4	4190.6	3964.1	3994.2	3949.4
47.5°	3971.8	3678.0	3534.2	3616.9	3534.2
50°	3375.6	3178.3	3138.7	3213.7	3117.2
52.5°	2887.1	2709.6	2791.5	2804.4	2746.7
55°	2501.1	2283.2	2454.6	2420.1	2453.7
57.5°	2165.1	1921.3	2132.4	2092.7	2208.2
60°	1887.7	1613.7	1832.6	1823.9	2048.8
62.5°	1615.5	1396.6	1572.3	1699.0	1975.5
65°	1382.8	1227.7	1374.2	1606.8	1745.6
67.5°	1159.7	1101.1	1257.0	1386.2	1537.9
70°	964.9	995.1	1247.5	1223.4	1346.6
72.5°	801.3	903.8	1101.1	1105.4	1192.4
75°	654.8	823.7	967.6	1033.9	1062.3
77.5°	544.5	747.0	873.7	896.9	869.3
80°	456.6	658.2	764.2	753.9	715.1
82.5°	368.7	498.9	602.3	611.7	566.0
85°	260.2	361.9	442.0	444.6	410.1
87.5°	139.6	223.2	268.0	275.7	255.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)